

Application No. 10/750,787
Amendment After Final dated February 19, 2008
Reply to final Office Action of December 31, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 and 2 (canceled)

Claim 3 (currently amended): The instrument of claim 5 wherein ~~the handle includes a longitudinal axis extending from the first end to the second end, the first and second ends being~~ are reversible between a first position in which the driver is positioned for use and a second position in which the targeting guide is positioned for use.

Claim 4 (currently amended): The instrument of claim 3 wherein the handle has a generally circular cross section perpendicular to the handle axis and an elliptical longitudinal shape such that the handle may be gripped with equal security and comfort in both a targeting guide forward position and a driver forward position to facilitate reversal of the instrument for use of either end.

Claim 5 (currently amended): A combination targeting guide and driver instrument for use during orthopaedic surgical procedures on a bone to guide elongated members such as pins and drill bits and for imparting torque to workpieces such as screws and bolts, the instrument comprising:

a handle having first and second ends and a handle axis extending between the first and second ends;

means for imparting torque to a workpiece attached to the first end; and

means for guiding an elongated member to a desired location on the bone attached to the second end;

wherein the means for imparting torque comprises a driver and the means for guiding comprises a targeting guide having at least one guide hole for guiding the elongated member to a desired location on the bone; and

wherein the driver comprises an engagement end extending outwardly from the handle along the handle axis and an attachment portion embedded in the handle, the attachment portion having a non-circular cross section to resist rotation relative to the handle, the attachment portion further having an enlarged end embedded in the handle to resist axial translation of the driver relative to the handle.

Claim 6 (canceled)

Claim 7 (currently amended): A combination targeting guide and driver instrument for use during orthopaedic surgical procedures on a bone to guide elongated members such as pins and drill bits and for imparting torque to workpieces such as screws and bolts, the instrument comprising:

a handle having first and second ends and a handle axis extending between the first and second ends;

means for imparting torque to a workpiece attached to the first end;

means for guiding an elongated member to a desired location on the bone attached to the second end; and

an extension projecting from the handle, the targeting guide being mounted on said extension such that the targeting guide is spaced from the handle, the extension projecting along the handle axis for a first predetermined distance and then bending outwardly away from the axis for a second predetermined distance such that the targeting guide is offset from the axis in one plane;

wherein the means for imparting torque comprises a driver and the means for guiding comprises [[a]] the targeting guide, the targeting guide having at least one guide hole for guiding the elongated member to a desired location on the bone; and

wherein the targeting guide is elongated perpendicular to the handle axis such that it extends between first and second guide ends offset on opposite sides of the handle axis.

Claim 8 (previously presented): The instrument of claim 5 wherein the targeting guide includes at least one guide hole for receiving the elongated member and directing it toward the bone, the targeting guide further including at least one guide hole extension tube extending from the targeting guide along the guide hole axis to provide an elongated bearing surface for supporting the elongated member, the end of the tube being scalloped to fit the contours of the bone.

Claim 9 (original): The instrument of claim 8 wherein the targeting guide includes at least one sizing insert to change the diameter of the guide hole, the sizing insert including a tube having an outer diameter sized to fit within the guide hole and guide hole extension tube and an inner diameter sized to guide the elongated member.

Claim 10 (previously presented): A method for guiding at least one elongated member and for imparting torque to a fastener during an orthopaedic procedure, the method comprising:

providing a combination instrument comprising:

a handle having first and second ends;

a driver attached to the first end of the handle for engaging and for imparting torque to the fastener; and

a targeting guide attached to the second end of the handle, the targeting guide having at least one guide hole for guiding at least one elongated member to a desired location on a bone;

gripping the instrument with the targeting guide facing forward for use;

positioning the targeting guide adjacent a bone;

guiding the at least one elongated member to a desired location on the bone with the targeting guide;

reversing the instrument so that the driver faces forward for use;

engaging the fastener with the driver; and
imparting torque to the fastener.

Claim 11 (previously presented): The method of claim 10 wherein the elongated member guided by the targeting guide is a transcutaneous external fixator pin and the fastener is part of a clamping mechanism on an external fixator, the method further comprising:

using the targeting guide to place transcutaneous external fixator pins on opposite sides of a fracture; and

using the driver to tighten the clamping mechanism onto the pin.

Claim 12 (currently amended): The instrument of claim 7 wherein ~~the handle includes a longitudinal axis extending from the first end to the second end, the first and second ends being~~ are reversible between a first position in which the driver is positioned for use and a second position in which the targeting guide is positioned for use.

Claim 13 (previously presented): The instrument of claim 12 wherein the handle has a generally circular cross section perpendicular to the axis and an elliptical longitudinal shape such that the handle may be gripped with equal security and comfort in both a targeting guide forward position and a driver forward position to facilitate reversal of the instrument for use of either end.

Claim 14 (currently amended): The instrument of claim 7 wherein ~~the targeting guide includes at least one guide hole for receiving the elongated member and directing it toward the bone,~~ the targeting guide further including includes at least one guide hole extension tube extending from the targeting guide along [[the]] a guide hole axis to provide an elongated bearing surface for supporting the elongated member, the end of the tube being scalloped to fit the contours of the bone.

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Claim 15 (previously presented): The instrument of claim 14 wherein the targeting guide includes at least one sizing insert to change the diameter of the guide hole, the sizing insert including a tube having an outer diameter sized to fit within the guide hole and guide hole extension tube and an inner diameter sized to guide the elongated member.